



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/820,319	04/08/2004	Igor Y. Khandros	P198-US	8542
50905	7590	09/29/2005	EXAMINER	
N. KENNETH BURRASTON KIRTON & MCCONKIE P.O. BOX 45120 SALT LAKE CITY, UT 84145-0120			NGUYEN, VINH P	
			ART UNIT	PAPER NUMBER
			2829	

DATE MAILED: 09/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/820,319	Applicant(s) KHANDROS ET AL.	
	Examiner VINH P. NGUYEN	Art Unit 2829	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 September 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-39 is/are pending in the application.
- 4a) Of the above claim(s) 10-13 and 25-39 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3,5-7 and 9 is/are rejected.
- 7) ☒ Claim(s) 2,4,8 and 14-24 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>0905</u> . | 6) <input type="checkbox"/> Other: _____ |

1. Applicant's election with traverse of species of figure 8 including claims 1-9,14-24 and 30-34 in the reply filed on 09/09/05 is acknowledged. The traversal is on the ground(s) that Examine fails to identify any characteristics of species A-E and species AA,BB and CC . This is not found persuasive because these distinct species A-E are clearly recited in Applicants' specification on page 2, lines 5,15 and 21. Furthermore, the method steps as recited in claims 25-29 for species of BB require to have the steps of performing a first test on a first set of electronic device, receiving the first base controller from a second tester second test data for performing a second test on the first set of electronic devices , wirelessly transmitting the second test data from the first base controller to a plurality of first test controllers and performing a second test on the first set of electronic devices meanwhile the method steps of claims 10-13 and 35-39 do not have those steps, therefore these species are patentably distinct. IT is noted that the search for species of A-E and AA,BB and CC are not the same since each species have acquired a separate status in the art and different searches due to their divergent subject matters.

The requirement is still deemed proper and is therefore made FINAL.

2. It appears that elected claims 30-34 do not read on elected species of figure 8, therefore these claims are withdrawn from consideration along with claims 10-13,25-29,35-39.
3. Claims 10-13,25-29 and 30-39 and withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 09/09/05.

4. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

5. Claim 1-9 and 14- 24 are objected to because of the following informalities:

In claims 1-2, it is unclear what “a plurality of connectors” comprise of. Are they shown in any of drawings?

In claim 4, it is unclear how the encloser is interrelated and associated with other claimed elements in claim 1.

In claim 8, it is unclear which “a plurality of connectors” are referred to since there are two types of

In claims 14, it is unclear what “a plurality of connectors” comprise of. Are they shown in any of drawings?

In claim 24, it is unclear how the probe card is interrelated and associated with other claimed elements in claim 14.

The dependent claims not specifically address share the same indefiniteness as they depend from objected base claims.

Appropriate correction is required.

6. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the features of “a plurality of connectors” as recited in claims 1 and 14 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 1,3,5-7 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brady et al (Pat # 6,236,223) in view of

As to claim 1, Brady et al disclose a testing apparatus as shown in figure 1 having a base controller (118) connected to a tester (126), a test controller (114,116) with a plurality of connectors that are connectable to an electronic device under test (112) and wireless means for communicating test data wirelessly between the base controller (118) and the test controller (114,116). However, Brady et al do not teach that the base controller connected to an electronic device (112) by a plurality of connectors.

Sekino disclose an IC testing device as shown in figure 2 having a base controller (81) with a plurality of connectors (L1...Ln) connected to the tester (10) and a tester controller (82) connected to device under test (11).

It would have been obvious for one of ordinary skill in the art to provide a plurality of connectors in a base controller as taught by Sekino to the device of Brady et al so that different measured signals from the device under test are analyzed separately.

As to claim 3, it appears that at least a portion (114) of the test controller (114,116) is disposed on the electronic device (112).

As to claim 5, the electronic device (112) is a semiconductor IC device.

As to claim 6, Brady et al disclose in figure 2 an unsingulated semiconductor wafer with a plurality of electronic devices (212).

As to claim 7, it appears that the wireless means (124) of Brady et al comprises a first transceiver (first end of the wireless means (124) connected to the test controller (114,116) and a second transceiver (second end of the wireless means (124)) connected to the base controller (118).

As to claim 9, it appears that the test data of Brady et al includes test command.

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Moore (Pat # 6,759,863) disclose wireless radio frequency technique design and method for testing of integrated circuits and wafer.

Achor et al (pat # 5,621,312) disclose method and apparatus for checking the integrity of a device tester handler setup.

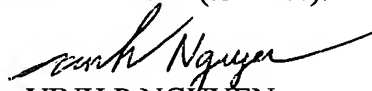
10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VINH P. NGUYEN whose telephone number is 571-272-1964. The examiner can normally be reached on 6:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 571-272-2034. The fax phone number for the

Art Unit: 2829

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


VINH P NGUYEN
Primary Examiner
Art Unit 2829
09/28/05